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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-28. (Cancelled)

- 29. (Currently Amended) A composition for the growth of apatite, fluoroapatite, or dentine on tooth material, comprising
 - (a) an alkaline medium comprising calcium ions,
 - (b) a first gel comprising gelatin and phosphate ions, [[and]]
 - (c) <u>a second gel, which is free of phosphate ions and calcium ions,</u>

 <u>capable of covering a first layer of said first gel with a layer of the second gel, and</u>
 - (d) a medium solution containing calcium ions.
- 30. (Previously Presented) The composition of claim 29, wherein the first gel further comprises at least one calcium phosphate compound.
- 31. (Currently Amended) The composition of claim 29 A composition for the growth of apatite, fluoroapatite or dentine on tooth material, further comprising
 - (i) an alkaline medium, the alkaline medium further comprising calcium ions,
 - (ii) a first gel comprising gelatin and phosphate ions,
 - (d) (iii) a second gel which is free of phosphate ions, which is capable of covering a first layer of the first gel with a layer of this second gel.

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32. (Previously Presented) The composition of claim 29, wherein the alkaline medium is an alkaline solution or an alkaline gel.

- 33. (Previously Presented) The composition of claim 29, wherein the alkaline medium has a pH of 7.1 to 14.
- 34. (Previously Presented) The composition of claim 29, wherein the alkaline medium comprises 0.05 to 1N NaOH.
- 35. (Cancelled).
- 36. (Previously Presented) The composition of claim 29, wherein the first gel is a gelatin-glycerol gel.
- 37. (Previously Presented) The composition of claim 29, wherein the first gel further comprises fluoride ions.
- 38. (Previously Presented) The composition of claim 29, wherein the first gel has a pH of 2.0 to 6.0.

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39. (Previously Presented) The composition of claim 30, wherein the calcium phosphate compound is selected from the group consisting of fluoroapatite, monetite, brushite, amorphous calcium phosphate, and hydroxylapatite.

- 40. (Previously Presented) The composition of claim 30, wherein the calcium phosphate compound is fluoroapatite.
- 41. (Previously Presented) The composition of claim 40, wherein the fluoroapatite is in the form of spherical particles.
- 42. (Previously Presented) The composition of claim 30, wherein the first gel contains 5 to 30% by weight of calcium phosphate compounds.
- 43. (Previously Presented) The composition of claim 42, wherein said calcium phosphate compounds are fluoroapatite particles.
- 44. (Previously Presented) The composition of claim 30, wherein the first gel contains spherical particles of calcium phosphate compounds.
- 45. (Previously Presented) The composition of claim 44, wherein said calcium phosphate compounds are spherical particles of fluoroapatite.

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46. (Previously Presented) The composition of claim 30, wherein the calcium phosphate compound comprises particles having an average size of 5 to 50 μ m.

- 47. (Previously Presented) The composition of claim 46, wherein the average size of said particles is 10 to 20 μ m.
- 48. (Currently Amended) The composition of claim [[31]] <u>29</u>, wherein the second gel is also free of fluoride ions.
- 49. (Currently Amended) The composition of claim [[31]] <u>29</u>, wherein the second gel is selected from the group consisting of gelatin-glycerol gels, polysaccharide gels and carboxymethyl-cellulose gels.
- 50. (Cancelled).
- 51. (Currently Amended) The composition of claim 29, wherein the medium solution containing calcium ions has a pH of 6 to 8.
- 52. (Previously Presented) The composition of claim 29, wherein said tooth material is human teeth or human tooth enamel.
- 53. (Withdrawn-Currently Amended) A kit for the growth of apatite, fluoroapatite, or dentine on tooth material, comprising

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a) an alkaline medium comprising calcium ions,

- b) a first gel which comprises gelatin and phosphate ions, [[and]]
- c) <u>a second gel, which is free of phosphate ions and calcium ions,</u>

 capable of covering a first layer of said first gel with a layer of this second

 gel, and
- <u>d)</u> a medium solution containing calcium ions.
- 54. (Withdrawn-Currently Amended) A process for the growth of apatite, fluoroapatite, or dentine on tooth material, comprising the steps
 - (i) treating said tooth material with an alkaline medium comprising calcium ions, thereafter
 - (ii) applying a first gel which comprises gelatin and phosphate ions to said tooth material, and thereafter
 - (iii) applying a second gel which is free of phosphate ions and calcium ions for covering a first layer of the first gel with a layer of this second gel, and thereafter
 - (iv) applying a medium solution containing calcium ions to said tooth material,

wherein said application steps are effective in causing a building up of apatite, fluoroapatite, or dentine on the surface of the tooth material.

55. (New) A kit for the growth of apatite, fluoroapatite or dentine on tooth material, comprising

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(i) an alkaline medium, the alkaline medium further comprising calcium ions,

- (ii) a first gel which comprises gelatin and phosphate ions, and
- (iii) a second gel which is free of phosphate ions and contains calcium ions, which is capable of covering a first layer of the first gel with a layer of this second gel.

56. (New) A process for the growth of apatite, fluoroapatite or dentine on tooth material, comprising the steps

- (i) treating said tooth material with an alkaline medium, the alkaline medium comprising calcium ions, thereafter
- (ii) applying a first gel which comprises gelatin and phosphate ions to said tooth material, and thereafter
- (iii) applying a second gel which is free of phosphate ions and contains calcium ions for covering a first layer of the first gel with a layer of this second gel,

wherein said application steps are effective in causing a building up of apatite, fluoroapatite or dentine on the surface of the tooth material.